

# BEST AVAILABLE COPY

PATENT

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE (Case No. 99,818)

In re Application of:

**Mark O. Vogel, et al.**

Serial No.: **09/538,342**

Filed: **March 29, 2000**

For: **Method for Improved Cable Modem Ranging  
in a Data-Over-Cable System**

Art Unit: 2711

Examiner: To be Assigned

Asst. Commissioner for Patents  
Washington, D.C. 20231

### TRANSMITTAL LETTER

1. We are transmitting herewith the attached papers for the above-identified new patent application:

☒ Information Disclosure Statement (IDS)

☒ PTO-1449 Form

☒ Copies of Fifty-Eight (58) Cited References for 09/538,342

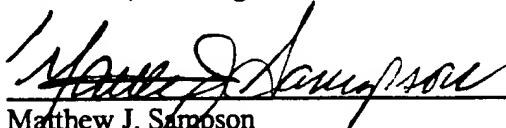
☒ Return Postcard

2. No fees are due at this time.

3. **GENERAL AUTHORIZATION TO CHARGE OR CREDIT FEES:** Please charge any additional fees or credit overpayment to Deposit Account No. 13-2490. A duplicate copy of this sheet is enclosed.

4. **CERTIFICATE OF MAILING UNDER 37 CFR § 1.8:** The undersigned hereby certifies that this Transmittal Letter and the papers, as described in paragraph 1 herein-above, are being deposited with the United States Postal Service with sufficient postage as "First Class Mail" in an envelope addressed to: Asst. Commissioner for Patents, Washington, D.C. 20231, on this 16<sup>th</sup> day of June 2000.

By:

  
Matthew J. Sampson  
Reg. No. 35,999

**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**  
(Case No. 99,818)

In re Application of:	)	
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Mark O. Vogel, et al.	)	
	)	Art Unit: 2711
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	)	
For: Method for Improved Cable Modem Ranging	)	
in a Data-Over-Cable System	)	

**INFORMATION DISCLOSURE STATEMENT**

Asst. Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

Pursuant to 37 C.F.R. Section 1.97-1.98, and in accordance with the duty of candor set forth in 37 C.F.R. §1.56, applicants wish to make the following references of record in the above-identified application. Copies of the references cited below are enclosed along with a copy of completed PTO Form-1449.

**I. U.S. PATENT DOCUMENTS**

<b><u>Document Number</u></b>	<b><u>Date</u></b>	<b><u>Name</u></b>
1) 5,014,234	05-07-91	Edwards, Jr.
2) 5,138,712	08-11-92	Corbin
3) 5,347,304	09-13-94	Moura et al.
4) 5,442,749	08-15-95	Northcutt et al.
5) 5,487,180	01-23-96	Ohtake
6) 5,488,412	01-30-96	Majeti et al.
7) 5,489,897	02-06-96	Inoue

8)	5,583,931	12-10-96	Schneider et al.
9)	5,586,121	12-17-96	Moura et al.
10)	5,600,717	02-04-97	Schneider et al.
11)	5,606,606	02-25-97	Schneider et al.
12)	5,608,446	03-04-97	Carr et al.
13)	5,623,542	04-22-97	Schneider et al.
14)	5,623,601	04-22-97	Vu
15)	5,636,211	06-03-97	Newlin
16)	5,675,732	10-07-97	Majeti et al.
17)	5,710,885	01-20-98	Bondi
18)	5,761,602	06-02-98	Wagner et al.
19)	5,778,181	07-07-98	Hidary et al.
20)	5,790,198	08-04-98	Roop, et al.
21)	5,790,548	08-04-98	Sistanizadeh, et al.
22)	5,790,677	08-04-98	Fox, et al.
23)	5,799,086	08-25-98	Sudia
24)	5,805,804	09-08-98	Laursen, et al.
25)	5,812,819	09-22-98	Rodwin et al.
26)	5,818,845	10-06-98	Moura, et al.
27)	5,819,042	10-06-98	Hansen
28)	5,828,655	10-27-98	Moura, et al.
29)	5,835,727	11-10-98	Wong et al.
30)	5,854,901	12-29-98	Cole, et al.
31)	5,859,852	01-12-99	Moura, et al.
32)	5,864,679	01-26-99	Kanai, et al.

33)	5,870,134	02-09-99	Laubach, et al.
34)	5,872,523	02-16-99	Dellaverson, et al.
35)	5,884,024	03-16-99	Lim et al.
36)	5,922,049	07-13-99	Radia, et al.
37)	5,923,659	07-13-99	Curry, et al.
38)	5,958,007	09-28-99	Lee et al.
39)	5,974,453	10-26-99	Anderson et al.
40)	5,996,076	11-30-99	Rowney et al.
41)	6,009,103	12-28-99	Woundy
42)	6,012,088	01-04-00	Li et al.
43)	6,013,107	01-11-00	Blackshear et al.
44)	6,018,767	01-25-00	Fijolek et al.
45)	6,049,826	04-11-00	Beser
46)	6,058,421	05-02-00	Fijolek et al.
47)	6,070,246	05-30-00	Beser

## II OTHER DOCUMENTS

- 48) "Baseline Privacy Interface Specification (Interim) SP-BPI-I01-970922", MCNS Holdings, L.P., 1997, Pgs. ii to 65.
- 49) "Security System Specification (Interim Specification) SP-SSI-I01-970506", MCNS Holdings, L.P., 1997, Pgs. ii to 103.
- 50) "Cable Modem to Customer Premise Equipment Interface Specification (Interim) SP-CMCI-I02-980317", Multimedia Cable Network Systems (MCNS) Holdings, L.P., Cable Television Laboratories, Inc., 1998, Pgs. ii to 40.
- 51) "Operations Support System Interface Specification Baseline Privacy Interface MIB (Interim Specification) SP-OSSI-BPI-I01-980331", MCNS Holdings, L.P., 1997 and 1998, Pgs. ii to 33.
- 52) "Cable Modem Termination System-Network Side Interface Specification (Interim Specification) SP-CMTS-NSII01-960702", MCNS Holdings, L.P., 1996, Pgs. ii to 13.

- 53) "Removable Security Module Interface Specification (Interim Specification) SP-RSMI-I01-980204", MCNS Holdings, L.P., Cable Television Laboratories, Inc., 1997, Pgs. ii to 47.
- 54) "Operations Support System Interface Specification (Interim) SP-OSSII01-970403", MCNS Holdings, L.P., 1997, Pgs. 1 to 30.
- 55) "Radio Frequency Interface Specification (Interim Specification) SP-RFI-I02-971008", MCNS Holdings, L.P., 1997, Pgs. ii to 186.
- 56) "Cable Modem Telephony Return Interface Specification (Interim) SP-CMTRI-I01-970804", MCNS Holdings, L.P., Cable Television Laboratories, Inc., 1997, Pgs. ii to 73.
- 57) "Dynamic Host Configuration Protocol (DHCP)", Request for Comments 2131, Internet Engineering Task Force, March 1997, Pgs. 1 to 42.
- 58) "IPCDN Telephony Return MIB", IPCDN Working Group, Internet Engineering Task Force, March 1998, Pgs. 1 to 26.

### III. DISCUSSION

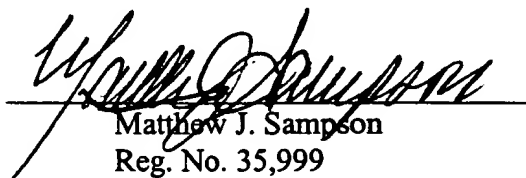
Applicants submit that these documents, whether taken alone or in combination, fail to show or suggest the claimed subject matter. Applicants request that the Examiner consider the entirety of each document and make them of record in this application. Applicants' submission of these documents for consideration is not to be construed as an admission that the documents qualify as prior art to the claimed subject matter, a representation that a search has been made, nor as an admission that the information is considered to be material to patentability.

Respectfully submitted,

**McDonnell, Boehnen, Hulbert & Berghoff**

Date: June 16, 2000

by:

  
Matthew J. Sampson  
Reg. No. 35,999

FORM PTO-1449  
(Rev. 2-32)

U.S. Department of Commerce  
Patent and Trademark Office

Atty. Docket No.

99,818

Serial No.

09/538,342

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use several sheets if necessary)

**Applicant:**

Mark O. Vogel, et al.

**Filing Date:**

3/29/00

**Group:**

2711

**U.S. PATENT DOCUMENTS**

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
	1	5,014,234	05-07-91	Edwards, Jr.	364	900	08-25-86
	2	5,138,712	08-11-92	Corbin	395	700	10-02-89
	3	5,347,304	09-13-94	Moura et al.	348	12	07-28-93
	4	5,442,749	08-15-95	Northcutt et al.	395	200.09	07-09-93
	5	5,487,180	01-23-96	Ohtake	455	54.1	03-17-94
	6	5,488,412	01-30-96	Majeti et al.	348	10	03-31-94
	7	5,489,897	02-06-96	Inoue	340	870.39	04-13-93
	8	5,583,931	12-10-96	Schneider et al.	379	399	07-14-95
	9	5,586,121	12-17-96	Moura et al.	370	404	04-21-95
	10	5,600,717	02-04-97	Schneider et al.	379	399	06-14-96
	11	5,606,606	02-25-97	Schneider et al.	379	399	06-14-96
	12	5,608,446	03-04-97	Carr et al.	348	6	05-09-95
	13	5,623,542	04-22-97	Schneider et al.	379	399	06-14-96
	14	5,623,601	04-22-97	Vu	395	187.01	11-21-94
	15	5,636,211	06-03-97	Newlin et al.	370	465	8-15-95
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	17	5,710,885	01-20-98	Bondi	395	200.54	11-28-95

EXAMINER	DATE CONSIDERED
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	18	5,761,602	06-02-98	Wagner et al.	455	3.1	09-13-95
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	20	5,790,198	08-04-98	Roop, et al.	348	460	05-04-94
	21	5,790,548	08-04-98	Sistanizadeh, et al.	370	401	04-18-96
	22	5,790,677	08-04-98	Fox, et al.	380	24	06-29-95
	23	5,799,086	08-25-98	Sudia	380	23	02-19-97
	24	5,805,804	09-08-98	Laursen, et al.	395	200.02	03-12-97
	25	5,812,819	09-22-98	Rodwin et al.	395	500	06-05-95
	26	5,818,845	10-06-98	Moura, et al.	370	449	01-18-96
	27	5,819,042	10-06-98	Hansen	395	200.52	02-20-96
	28	5,828,655	10-27-98	Moura, et al.	370	236	08-21-96
	29	5,835,727	11-10-98	Wong et al.	395	200.68	12-09-96
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	31	5,859,852	01-12-99	Moura, et al.	370	449	08-27-96
	32	5,864,679	01-26-99	Kanai, et al.	709	238	05-21-97
	33	5,870,134	02-09-99	Laubach, et al.	348	12	03-04-97
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	37	5,923,659	07-13-99	Curry, et al.	370	401	09-20-96
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	41	6,009,103	12-28-99	Woundy	370	401	12-23-97
	42	6,012,088	01-04-00	Li et al.	709	219	12-10-96
	43	6,013,107	01-11-00	Blackshear et al.	703	229	10-06-97
	44	6,018,767	01-25-00	Fijolek et al.	709	218	02-24-98
	45	6,049,826	04-11-00	Beser	709	222	02-04-98
	46	6,058,421	05-02-00	Fijolek et al.	709	225	02-04-98
	47	6,070,246	05-30-00	Beser	713	201	02-04-98

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99,818

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09/538,342

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(Use several sheets if necessary)

Applicant:

Mark O. Vogel, et al.

Filing Date:

3/29/00

Group:

2711

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc).

48	"Baseline Privacy Interface Specification (Interim) SP-BPI-I01-970922", MCNS Holdings, L.P., 1997, Pgs. ii to 65.
49	"Security System Specification (Interim Specification) SP-SSI-I01-970506", MCNS Holdings, L.P., 1997, Pgs. ii to 103.
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53	"Removable Security Module Interface Specification (Interim Specification) SP-RSMI-I01-980204", MCNS Holdings, L.P., Cable Television Laboratories, Inc., 1997, Pgs. ii to 47.
54	"Operations Support System Interface Specification (Interim) SP-OSSII01-970403", MCNS Holdings, L.P., 1997, Pgs. 1 to 30.
55	"Radio Frequency Interface Specification (Interim Specification) SP-RFI-I02-971008", MCNS Holdings, L.P., 1997, Pgs. ii to 186.

EXAMINER

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<b>FORM PTO-1449</b> (Rev. 2-32)	<b>U.S. Department of Commerce</b> <b>Patent and Trademark Office</b>	<b>Atty. Docket No.</b>  99,818	<b>Serial No.</b>  09/538,342
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use several sheets if necessary)		<b>Applicant:</b>  Mark O. Vogel, et al.	
		<b>Filing Date:</b>  3/29/00	<b>Group:</b>  2711

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc).**

	56	"Cable Modem Telephony Return Interface Specification (Interim) SP-CMTRI-I01-970804", MCNS Holdings, L.P., Cable Television Laboratories, Inc., 1997, Pgs. ii to 73.
	57	"Dynamic Host Configuration Protocol (DHCP)", Request for Comments 2131, Internet Engineering Task Force, March 1997, Pgs. 1 to 42.
	58	"IPCDN Telephony Return MIB", IPCDN Working Group, Internet Engineering Task Force, March 1998, Pgs. 1 to 26.

<b>EXAMINER</b>	<b>DATE CONSIDERED</b>
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Hon. Commissioner of  
Patents and Trademarks

S/N 09/538,342

Atty MJD

Re: Applicant - Mark O. Vogel et al.

Case No. 99,818

Method for Improved Cable Modem Ranging in a Data-Over-Cable System

Sir:

Please place the Patent Office receipt stamp hereon and mail to acknowledge receipt of:

- ☒ Transmittal in Duplicate
- ☒ Information Disclosure Statement (IDS)
- ☒ PTO-1449 Form
- ☒ Copies of Fifty-Eight (58) Cited References for 09/538,342
- ☐ Filing Fee Check

\$-0-

Date Mailed: June 16, 2000

Respectfully,  
McDonnell Boehnen Hulbert & Berghoff  
Attorney for Applicant

Vogel et al.

Filed: March 29, 2000

Title            Method For Improved Cable Modem  
Ranging In A Data-Over-Cable  
System

Examiner: To Be Advised

Group Art Unit: 2711

BOX DD  
Commissioner for Patents  
Washington, D.C. 20231

Sir:

## TRANSMITTAL LETTER

**In regard to the above identified application:**

1. We are transmitting herewith the attached:
  - a. Supplemental Information Disclosure Statement;
  - b. Supplemental Form PTO-1449;
  - c. Copy of IDS Citations 09/538,342 (76 references);
  - d. Return Receipt Postcard.

2. With respect to additional fees:

☒ No additional fee is required.

3. Please charge any additional fees or credit overpayment to Deposit Account No.13-2490. A duplicate copy of this sheet is enclosed.

4. **CERTIFICATE OF MAILING UNDER 37 CFR § 1.8:** The undersigned hereby certifies that this Transmittal Letter and the paper, as described in paragraph 1 hereinabove, are being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Box DD, Washington, D.C. 20231 on this 19th day of December, 2001.

**By :**

Timothy R. Baumann  
Reg. No. 40,502

McDONNELL BOEHNNEN,  
HULBERT & BERGHOFF  
300 SOUTH WACKER DRIVE  
CHICAGO, ILLINOIS 60606  
TELEPHONE (312) 913-0001

## PATENT



Group Art Unit: 2711

## 1

references. This Statement is not a representation that the cited references have effective dates early enough to be "prior art" within the meaning of 35 U.S.C. sections 102 or 103.

### **CITED REFERENCES**

#### **U.S. Patent Documents**

<b>Document Number</b>	<b>Date</b>	<b>Name</b>	<b>Class</b>	<b>Sub Class</b>	<b>Filing Date of App.</b>
4,644,533	02/17/1997	Braff et al.	370	94	05/06/1985
4,881,263	11/14/1989	Herbison et al.	380	21	09/25/1987
4,996,685	02/26/1991	Farese et al.	370	58.1	04/10/1989
5,301,273	04/05/1994	Konishi	395	200	06/18/1991
5,430,727	07/04/1995	Callon	370	85.13	05/19/1994
5,598,410	01/28/1997	Stone	370	469	12/29/1994
5,610,910	03/11/1997	Focsaneanu et al.	370	351	08/17/1995
5,675,742	10/07/1997	Jain et al.	395	200	06/26/1995
5,708,654	01/13/1998	Arndt et al.	370	242	11/27/1996
5,724,510	03/03/1998	Arndt et al.	395	200.5	09/06/1996
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5,819,028	10/06/1998	Manghirmalani et al.	395	185.1	04/16/1997
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5,852,721	12/22/1998	Dillon et al.	395	200.47	02/07/1997
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5,909,549	06/01/1999	Compliment et al.	709	223	11/12/1996
5,913,037	06/15/1999	Spofford et al.	395	200.56	07/03/1996

<b>Document Number</b>	<b>Date</b>	<b>Name</b>	<b>Class</b>	<b>Sub Class</b>	<b>Filing Date of App.</b>
5,915,119	06/22/1999	Cone	395	750.02	10/01/1996
5,922,051	07/13/1999	Sidey	709	223	05/14/1997
5,943,604	08/24/1999	Chen et al.	455	5.1	10/31/1997
5,954,797	09/21/1999	Sidey	709	223	05/14/1997
5,982,748	11/09/1999	Yin et al.	370	232	10/03/1996
5,987,524	11/16/1999	Yoshida et al.	709	245	09/30/1997
5,991,292	11/23/1999	Focsaneanu et al.	370	352	03/06/1997
5,991,306	11/23/1999	Burns et al.	370	429	08/26/1996
5,999,536	12/07/1999	Kawafuji et al.	370	401	11/24/1997
6,003,077	12/14/1999	Bawden et al.	709	223	09/15/1997
6,005,851	12/21/1999	Craddock et al.	370	329	10/10/1997
6,006,264	12/21/1999	Colby et al.	709	226	03/30/1998
6,014,545	01/11/2000	Wu et al.	455	3.1	03/27/1997
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6,049,546	04/11/2000	Ramakrishnan	370	412	10/15/1996
6,049,825	04/11/2000	Yamamoto	709	221	12/15/1997
6,052,724	04/18/2000	Willie et al.	709	223	09/02/1997
6,061,349	05/09/2000	Coile et al.	370	389	05/02/1997
6,065,049	05/16/2000	Beser	709	218	02/04/1998
6,070,187	05/30/00	Subramaniam et al.	709	220	03/26/1998
6,070,242	05/30/2000	Wong et al.	713	201	12/09/1996
6,073,178	06/06/2000	Wong et al.	709	229	12/09/1996
6,075,787	06/13/2000	Bobeck et al.	370	395	05/08/1997
6,091,709	07/18/2000	Harrison et al.	370	235	11/25/1997
6,094,431	07/25/2000	Yamato et al.	370	395	11/29/1996
6,104,700	08/15/2000	Haddock et al.	370	235	02/03/1998
6,112,258	08/29/2000	Miller et al.	710	19	03/19/1998
6,122,254	09/19/2000	Aydemir et al.	370	235	11/25/1997

<b>Document Number</b>	<b>Date</b>	<b>Name</b>	<b>Class</b>	<b>Sub Class</b>	<b>Filing Date of App.</b>
6,128,298	10/03/2000	Wootton et al.	370	392	10/03/2000
6,130,879	10/10/2000	Liu	370	230	09/22/1997
6,130,880	10/10/2000	Naudus et al.	370	235	03/20/1998
6,137,792	10/24/2000	Jonas et al.	370	354	06/14/1996
6,137,793	10/24/2000	Gorman et al.	370	360	12/05/1997
6,148,410	11/14/2000	Naskey et al.	714	4	09/15/1997
6,157,965	12/05/2000	Mohammed et al.	710	8	02/27/1998
6,170,061	01/02/2001	Beser	713	201	02/04/1998
6,178,455	01/23/2001	Schuttte et al.	709	228	04/11/1997
6,185,624	02/06/2001	Fijolek et al.	709	239	02/04/1998
6,189,102	02/13/2001	Beser	713	201	05/27/1998
6,208,656	03/27/2001	Hrastar et al.	370	401	04/11/1997
6,212,563	04/03/2001	Beser	709	227	10/01/1998
6,216,171	04/10/2001	Isono et al.	709	250	02/11/1998
6,223,222	04/24/2001	Fijolek et al.	709	227	05/14/1998
6,240,464	05/29/2001	Fijolek et al.	709	250	02/04/1998
6,260,072	07/10/2001	Rodriguez-Moral	709	241	06/12/1997
6,269,099	07/31/2001	Borella et al.	370	389	07/01/1998
6,272,150	08/07/2001	Hrastar	370	486	05/05/1997
6,275,853	08/14/2001	Beser et al.	709	223	05/27/1998
6,295,554	09/25/2001	Karadogan et al.	709	219	05/27/1998

#### **Other Documents**

<b>Citation</b>
Kyees et al., "ADSL: A New Twisted-Pair Access To The Information Highway", IEEE Communication Magazine, Vol. 33, Issue 4, April 1995, pages 52-60.
Huang et al., "Design Of An MPEG-Based Set-Top Box For Video On Demand Services, Acoustics, Speech, And Signal Processing", 1995 International Conference, ICASSP-95, Vol. 4, ISBN:0-7803-2431-5, May 9-12, 1995, pages 2655-2658.



Citation
"A Solution For The Priority Queue Problem Of Deadline-Ordered Service Disciplines", N.R. Figueira, IEEE International Conference On Computer Communications And Networks, September 22-25, 1997, pages 320-325.

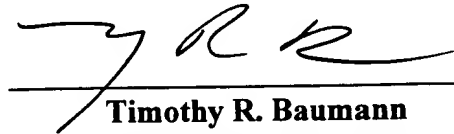
Respectfully submitted,

**McDonnell Boehnen Hulbert & Berghoff**

Date:

12/19/01

By:



**Timothy R. Baumann**  
**Registration No. 40,502**

Form PTO-1449 (modified)	Atty. Docket No. 99,818	Serial No. 09/538,342
List of Patents and Publications for Applicant's  SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT  (Use several sheets if necessary)	Applicant  Vogel et al.	
	Filing Date: 03/29/2000	Group: 2711
U.S. Patent Documents <i>See Page 1</i>	Foreign Patent Documents <i>See Page 4</i>	Other Art <i>See Page 4</i>

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Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date of App.
	A1	4,644,533	02/17/1997	Braff et al.	370	94	05/06/1985
	A2	4,881,263	11/14/1989	Herbison et al.	380	21	09/25/1987
	A3	4,996,685	02/26/1991	Farese et al.	370	58.1	04/10/1989
	A4	5,301,273	04/05/1994	Konishi	395	200	06/18/1991
	A5	5,430,727	07/04/1995	Callon	370	85.13	05/19/1994
	A6	5,598,410	01/28/1997	Stone	370	469	12/29/1994
	A7	5,610,910	03/11/1997	Focsaneanu et al.	370	351	08/17/1995
	A8	5,675,742	10/07/1997	Jain et al.	395	200	06/26/1995
	A9	5,708,654	01/13/1998	Arndt et al.	370	242	11/27/1996
	A10	5,724,510	03/03/1998	Arndt et al.	395	200.5	09/06/1996
	A11	5,790,770	08/04/1998	McClure et al.	395	200.61	07/18/1996
	A12	5,790,806	08/04/1998	Koperda	395	200.82	04/03/1996
	A13	5,793,747	08/11/1998	Kline	370	230	03/14/1996
	A14	5,809,252	09/15/1998	Beighe et al.	395	200.57	12/13/1996
	A15	5,819,028	10/06/1998	Manghirmalani et al.	395	185.1	04/16/1997
	A16	5,828,666	10/27/1998	Focsaneanu et al.	370	389	03/06/1997
	A17	5,835,720	11/10/1998	Nelson et al.	395	200.54	05/17/1996
	A18	5,841,777	11/24/1998	Cohen	370	433	08/30/1996
	A19	5,852,721	12/22/1998	Dillon et al.	395	200.47	02/07/1997
	A20	5,894,479	04/13/1999	Mohammed	370	401	12/10/1996
	A21	5,903,558	05/11/1999	Jones et al.	370	351	06/28/1996

<b>EXAMINER:</b>	<b>DATE CONSIDERED:</b>
EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.	

INFORMATION DISCLOSURE STATEMENT — PTO-1449 (MODIFIED)

Form PTO-1449 (modified)	Atty. Docket No. 99,818	Serial No. 09/538,342
List of Patents and Publications for Applicant's  SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT  (Use several sheets if necessary)	Applicant  Vogel et al.	
	Filing Date: 03/29/2000	Group: 2711
	U.S. Patent Documents See Page 1	Foreign Patent Documents See Page 4

### U.S. Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date of App.
	A22	5,909,549	06/01/1999	Compliment et al.	709	223	11/12/1996
	A23	5,913,037	06/15/1999	Spofford et al.	395	200.56	07/03/1996
	A24	5,915,119	06/22/1999	Cone	395	750.02	10/01/1996
	A25	5,922,051	07/13/1999	Sidey	709	223	05/14/1997
	A26	5,943,604	08/24/1999	Chen et al.	455	5.1	10/31/1997
	A27	5,954,797	09/21/1999	Sidey	709	223	05/14/1997
	A28	5,982,748	11/09/1999	Yin et al.	370	232	10/03/1996
	A29	5,987,524	11/16/1999	Yoshida et al.	709	245	09/30/1997
	A30	5,991,292	11/23/1999	Focsaneanu et al.	370	352	03/06/1997
	A31	5,991,306	11/23/1999	Burns et al.	370	429	08/26/1996
	A32	5,999,536	12/07/1999	Kawafuji et al.	370	401	11/24/1997
	A33	6,003,077	12/14/1999	Bawden et al.	709	223	09/15/1997
	A34	6,005,851	12/21/1999	Craddock et al.	370	329	10/10/1997
	A35	6,006,264	12/21/1999	Colby et al.	709	226	03/30/1998
	A36	6,014,545	01/11/2000	Wu et al.	455	3.1	03/27/1997
	A37	6,031,841	02/29/2000	Woundy	370	410	12/23/1997
	A38	6,041,041	03/21/2000	Ramanathan et al.	370	241	04/15/1997
	A39	6,049,546	04/11/2000	Ramakrishnan	370	412	10/15/1996
	A40	6,049,825	04/11/2000	Yamamoto	709	221	12/15/1997
	A41	6,052,724	04/18/2000	Willie et al.	709	223	09/02/1997
	A42	6,061,349	05/09/2000	Coile et al.	370	389	05/02/1997

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INFORMATION DISCLOSURE STATEMENT — PTO-1449 (MODIFIED)

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	U.S. Patent Documents <i>See Page 1</i>	Foreign Patent Documents <i>See Page 4</i>

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Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date of App.
	A43	6,065,049	05/16/2000	Beser	709	218	02/04/1998
	A44	6,070,187	05/30/00	Subramaniam et al.	709	220	03/26/1998
	A45	6,070,242	05/30/2000	Wong et al.	713	201	12/09/1996
	A46	6,073,178	06/06/2000	Wong et al.	709	229	12/09/1996
	A47	6,075,787	06/13/2000	Bobeck et al.	370	395	05/08/1997
	A48	6,091,709	07/18/2000	Harrison et al.	370	235	11/25/1997
	A49	6,094,431	07/25/2000	Yamato et al.	370	395	11/29/1996
	A50	6,104,700	08/15/2000	Haddock et al.	370	235	02/03/1998
	A51	6,112,258	08/29/2000	Miller et al.	710	19	03/19/1998
	A52	6,122,254	09/19/2000	Aydemir et al.	370	235	11/25/1997
	A53	6,128,298	10/03/2000	Wootton et al.	370	392	10/03/2000
	A54	6,130,879	10/10/2000	Liu	370	230	09/22/1997
	A55	6,130,880	10/10/2000	Naudus et al.	370	235	03/20/1998
	A56	6,137,792	10/24/2000	Jonas et al.	370	354	06/14/1996
	A57	6,137,793	10/24/2000	Gorman et al.	370	360	12/05/1997
	A58	6,148,410	11/14/2000	Naskey et al.	714	4	09/15/1997
	A59	6,157,965	12/05/2000	Mohammed et al.	710	8	02/27/1998
	A60	6,170,061	01/02/2001	Beser	713	201	02/04/1998
	A61	6,178,455	01/23/2001	Schutte et al.	709	228	04/11/1997
	A62	6,185,624	02/06/2001	Fijolek et al.	709	239	02/04/1998
	A63	6,189,102	02/13/2001	Beser	713	201	05/27/1998
	A64	6,208,656	03/27/2001	Hrastar et al.	370	401	04/11/1997

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INFORMATION DISCLOSURE STATEMENT — PTO-1449 (MODIFIED)

Form PTO-1449 (modified)  List of Patents and Publications for Applicant's  SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT  (Use several sheets if necessary)	Atty. Docket No. 99,818	Serial No. 09/538,342
	Applicant  Vogel et al.	
	Filing Date: 03/29/2000	Group: 2711
	U.S. Patent Documents <i>See Page 1</i>	Foreign Patent Documents <i>See Page 4</i>

### U.S. Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date of App.
	A65	6,212,563	04/03/2001	Beser	709	227	10/01/1998
	A66	6,216,171	04/10/2001	Isono et al.	709	250	02/11/1998
	A67	6,223,222	04/24/2001	Fijolek et al.	709	227	05/14/1998
	A68	6,240,464	05/29/2001	Fijolek et al.	709	250	02/04/1998
	A69	6,260,072	07/10/2001	Rodriguez-Moral	709	241	06/12/1997
	A70	6,269,099	07/31/2001	Borella et al.	370	389	07/01/1998
	A71	6,272,150	08/07/2001	Hrastar	370	486	05/05/1997
	A72	6,275,853	08/14/2001	Beser et al.	709	223	05/27/1998
	A73	6,295,554	09/25/2001	Karadogan et al.	709	219	05/27/1998

### Foreign Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No
	B1						
	B2						
	B3						
	B4						
	B5						

### Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
	C1	Kyees et al., "ADSL: A New Twisted-Pair Access To The Information Highway", IEEE Communication Magazine, Vol. 33, Issue 4, April 1995, pages 52-60.

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INFORMATION DISCLOSURE STATEMENT — PTO-1449 (MODIFIED)

Form PTO-1449 (modified)  List of Patents and Publications for Applicant's  SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT  (Use several sheets if necessary)	Atty. Docket No. 99,818	Serial No. 09/538,342
	Applicant  Vogel et al.	
	Filing Date: 03/29/2000	Group: 2711
U.S. Patent Documents <i>See Page 1</i>	Foreign Patent Documents <i>See Page 4</i>	Other Art <i>See Page 4</i>

### Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
	C2	Huang et al., "Design Of An MPEG-Based Set-Top Box For Video On Demand Services, Acoustics, Speech, And Signal Processing", 1995 International Conference, ICASSP-95, Vol. 4, ISBN:0-7803-2431-5, May 9-12, 1995, pages 2655-2658.
	C3	"A Solution For The Priority Queue Problem Of Deadline-Ordered Service Disciplines", N.R. Figueira, IEEE International Conference On Computer Communications And Networks, September 22-25, 1997, pages 320-325.
	C4	
	C5	
	C6	
	C7	
	C8	
	C9	

**EXAMINER:****DATE CONSIDERED:**

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*INFORMATION DISCLOSURE STATEMENT — PTO-1449 (MODIFIED)*

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
(Case No. 99,818)

In re Application of:

Mark O. Vogel et al.

Serial No. 09/538,342

Filed: March 29, 2000

For: Method for Improved Cable Modem Ranging  
In A Data-Over-Cable System

Examiner: To Be Assigned

Art Unit: 2711

**TRANSMITTAL LETTER**

Commissioner for Patents  
Washington, DC 20231

1. We are transmitting herewith the attached papers for the above-identified patent application:
  - 1) Second Supplemental Information Disclosure Statement (IDS) Letter
  - 2) Second Supplemental Information Disclosure Statement (IDS) PTO-Form 1449
  - 3) Copies of IDS Citations for 09/538,342 (6 Documents)
  - 4) Return Postcard
2. A check in the amount of \$0.00 is enclosed for the Filing Fee.
3. **GENERAL AUTHORIZATION TO CHARGE OR CREDIT FEES:** Please charge any additional fees or credit overpayment to Deposit Account No. 13-2490. A duplicate copy of this sheet is enclosed.
4. **CERTIFICATE OF MAILING UNDER 37 CFR § 1.8:** The undersigned hereby certifies that this Transmittal Letter and the paper, as described in paragraph 1 hereinabove, are being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Washington, D.C. 20231 on this 6<sup>th</sup> day of March, 2002.

By: 

Timothy R. Baumann  
Reg. No. 40,502

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
(Case No. 99,818)

In re Application of:	)	
	)	
Mark O. Vogel et al.	)	Examiner: To Be Assigned
	)	
Serial No. 09/538,342	)	Art Unit: 2711
	)	
Filed: March 29, 2000	)	
	)	
For: Method for Improved Cable Modem Ranging	)	
In A Data-Over-Cable System	)	

**SECOND SUPPLEMENTAL INFORMATION  
DISCLOSURE STATEMENT LETTER**

Commissioner for Patents  
Washington, DC 20231

Dear Sir:

Pursuant to the duty of disclosure provided by 35 C.F.R. § 1.56 and §§ 1.97-98, the applicants wish to make the following references of record in the above-identified application. Copies of the references are enclosed. Copies are also listed in the PTO-1449 form enclosed herewith. It is requested that the documents be given careful consideration and that they be cited of record in the prosecution history of the present application so that they will appear on the face of the patent issuing from the present application.

Portions of the references may be material to the examination of the pending claims, however no such admission is intended. 37 C.F.R. 1.97 (h). The references have not been reviewed in sufficient detail to make any other representation and, in particular, no representation is intended as to the relative importance of any portion of the references. This Statement is not a representation that the cited references have effective dates early enough to be "prior art" within the meaning of 35 U.S.C. sections 102 or 103.



## CITED REFERENCES

### U.S. Patent Documents

Document Number	Date	Name
6,331,987	12-18-01	Beser
6,337,858	01-08-02	Petty et al.
5,926,458	07-20-99	Yin
6,046,979	04-04-00	Bauman
6,332,163	12-18-01	Bowman-Amuah

### Other Documents

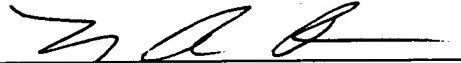
"Radio Frequency Interface Specification (Interim Specification) SP-RFI-I04-980724", MCNS Holdings, L.P., 1997, Pgs. ii to 196.

Respectfully submitted,

Date:

3/6/02

By:



Timothy R. Baumann  
Registration No. 40,502

<b>FORM PTO-1449</b> <b>(Rev. 2-32)</b>	<b>U.S. Department of Commerce</b> <b>Patent and Trademark Office</b>	<b>Atty. Docket No.</b> 99,818	<b>Serial No.</b> 09/538,342
<b>SECOND SUPPLEMENTAL INFORMATION DISCLOSURE</b> <b>STATEMENT BY APPLICANT</b> (Use several sheets if necessary)		<b>Applicant:</b> Mark O. Vogel et al.	
		<b>Filing Date:</b> March 29, 2000	<b>Group:</b> 2711

### U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
	1	6,331,987	12-18-01	Beser	370	486	05-27-98
	2	6,337,858	01-08-02	Petty et al.	370	356	10-10-97
	3	5,926,458	07-20-99	Yin	370	230	01-31-97
	4	6,046,979	04-04-00	Bauman	370	229	05-04-98
	5	6,332,163	12-18-01	Bowman-Amuah	709	231	09-01-99

### OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc).

6	"Radio Frequency Interface Specification (Interim Specification) SP-RFI-I04-980724", MCNS Holdings, L.P., 1997, Pgs. ii to 196.		
<table border="1" style="width: 100%;"> <tr> <td style="width: 50%;"><b>EXAMINER</b></td> <td style="width: 50%;"><b>DATE CONSIDERED</b></td> </tr> </table>		<b>EXAMINER</b>	<b>DATE CONSIDERED</b>
<b>EXAMINER</b>	<b>DATE CONSIDERED</b>		

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

Hon. Commissioner of  
Patents and Trademarks

S/N: 09/538,342

Atty TRB:hm

Re: Applicant - Mark O. Vogel et al.

Case No. 99,818

"Method for Improved Cable Modem Ranging in a Data-Over-Cable System"

Sir:

Please place the Patent Office receipt stamp hereon and mail to acknowledge receipt of:

- (1) Transmittal Letter in duplicate;
- (2) Second Supplemental Information Disclosure Statement;
- (3) Second Supplemental Form PTO-1449; and
- (4) 6 Cited References.

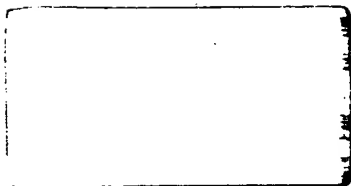
**Fee Enclosed**

\$ - 0 -

Date Mailed: March 6, 2002

Respectfully,

McDonnell Boehnen Hulbert & Berghoff  
Attorney for Applicant



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
(Case No. 99,818)

In re Application of:

Mark O. Vogel et al.

Serial No. 09/538,342

Filed: March 29, 2000

For: Method for Improved Cable Modem Ranging  
In A Data-Over-Cable System

Examiner: To Be Assigned

Art Unit: 2711

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By: 

George I. Lee

Reg. No. 39,269

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
(Case No. 99,818)

In re Application of:

Mark O. Vogel et al.

Serial No. 09/538,342

Filed: March 29, 2000

For: Method for Improved Cable Modem Ranging  
In A Data-Over-Cable System

Examiner: To Be Assigned

Art Unit: 2711

**THIRD SUPPLEMENTAL INFORMATION  
DISCLOSURE STATEMENT LETTER**

Commissioner for Patents  
Washington, DC 20231

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6,308,328	10-23-01	Bowcutt et al.
6,301,618	10-09-01	Sitaraman et al.
6,301,223	10-09-01	Hrastar et al.
6,370,147	04-09-02	Beser
6,351,773	02-26-02	Fijolek et al.

### Other Documents

1. "Radio Frequency Interface Specification (Interim Specification) SP-RFI-I05-991105", MCNS Holdings, L.P., 1999, Pgs. ii to 202.
2. "Radio Frequency Interface Specification (Interim Specification) SP-RFIV1.1-I06-001215", MCNS Holdings, L.P., 2000, Pgs. ii to 432.

Respectfully submitted,

Date:

6/19/2002

By:

George I. Lee  
George I. Lee  
Registration No. 39,269

FORM PTO-1449  
(Rev. 2-32)

U.S. Department of Commerce  
Patent and Trademark Office

Atty. Docket No.

99,818

Serial No.

09/538,342

**THIRD SUPPLEMENTAL INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use several sheets if necessary)

**Applicant:**

Mark O. Vogel et al.

**Filing Date:**

March 29, 2000

**Group:**

2711

**U.S. PATENT DOCUMENTS**

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
	1	6,308,328	10-23-01	Bowcutt et al.	725	111	04-10-97
	2	6,301,618	10-09-01	Sitaraman et al.	709	227	09-11-00
	3	6,301,223	10-09-01	Hrastar et al.	370	227	04-11-97
	4	6,370,147	04-09-02	Beser	370	401	04-23-98
	5	6,351,773	02-26-02	Fijolek et al.	709	228	12-21-98

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc).**

	6	"Radio Frequency Interface Specification (Interim Specification) SP-RFI-I05-991105", MCNS Holdings, L.P., 1999, Pgs. ii to 202.
	7	"Radio Frequency Interface Specification (Interim Specification) SP-RFIV1.1-I06-001215", MCNS Holdings, L.P., 2000, Pgs. ii to 432.
EXAMINER		DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

Hon. Commissioner of  
Patents and Trademarks

S/N: 09/538,342

Atty GIL:hm

Re: Applicant – Mark O. Vogel et al.

Case No. 99,818

“Method for Improved Cable Modem Ranging in a Data-Over-Cable System”

Sir:

Please place the Patent Office receipt stamp hereon and mail to acknowledge receipt of:

- (1) Transmittal Letter in duplicate;
- (2) Third Supplemental Information Disclosure Statement;
- (3) Third Supplemental Form PTO-1449; and
- (4) 7 Cited References.

**Fee Enclosed**

\$ - 0 -

Date Mailed: June 19, 2002

Respectfully,

McDonnell Boehnen Hulbert & Berghoff  
Attorney for Applicant



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
(Case No. 99,818)

In re Application of:

Mark O. Vogel et al.

Serial No. 09/538,342

Filed: March 29, 2000

For: Method for Improved Cable Modem Ranging  
In A Data-Over-Cable System

Examiner: To Be Assigned

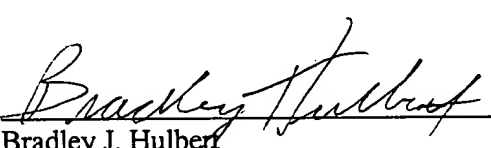
Art Unit: 2711

## TRANSMITTAL LETTER

Commissioner for Patents  
Washington, DC 20231

1. We are transmitting herewith the attached papers for the above-identified patent application:
  - 1) Fourth Supplemental Information Disclosure Statement (IDS) Letter
  - 2) Fourth Supplemental Information Disclosure Statement (IDS) PTO-Form 1449
  - 3) Copies of IDS Citations for 09/538,342 (3 Documents)
  - 4) Return Postcard
2. A check in the amount of \$0.00 is enclosed for the Filing Fee.
3. **GENERAL AUTHORIZATION TO CHARGE OR CREDIT FEES:** Please charge any additional fees or credit overpayment to Deposit Account No. 13-2490. A duplicate copy of this sheet is enclosed.
4. **CERTIFICATE OF MAILING UNDER 37 CFR § 1.8:** The undersigned hereby certifies that this Transmittal Letter and the paper, as described in paragraph 1 hereinabove, are being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Washington, D.C. 20231 on this 12<sup>th</sup> day of November, 2002.

By:

  
Bradley J. Hulbert  
Reg. No. 30,136

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
(Case No. 99,818)

In re Application of:	)	
	)	
Mark O. Vogel et al.	)	Examiner: To Be Assigned
	)	
Serial No. 09/538,342	)	Art Unit: 2711
	)	
Filed: March 29, 2000	)	
	)	
For: Method for Improved Cable Modem Ranging	)	
In A Data-Over-Cable System	)	

**FOURTH SUPPLEMENTAL INFORMATION  
DISCLOSURE STATEMENT LETTER**

Commissioner for Patents  
Washington, DC 20231

Dear Sir:

Pursuant to the duty of disclosure provided by 35 C.F.R. § 1.56 and §§ 1.97-98, the applicants wish to make the following references of record in the above-identified application. Copies of the references are enclosed. Copies are also listed in the PTO-1449 form enclosed herewith. It is requested that the documents be given careful consideration and that they be cited of record in the prosecution history of the present application so that they will appear on the face of the patent issuing from the present application.

Portions of the references may be material to the examination of the pending claims, however no such admission is intended. 37 C.F.R. 1.97 (h). The references have not been reviewed in sufficient detail to make any other representation and, in particular, no representation is intended as to the relative importance of any portion of the references. This Statement is not a representation that the cited references have effective dates early enough to be "prior art" within the meaning of 35 U.S.C. sections 102 or 103.

## CITED REFERENCES

### U.S. Patent Documents

Document Number	Date	Name
5,815,664	09-29-98	Asano
6,032,019	02-29-00	Chen et al.
6,442,158	08-27-02	Beser

Respectfully submitted,

Date: 11-12-02

By: Bradley J. Hulbert  
Bradley J. Hulbert  
Registration No. 30,130

<b>FORM PTO-1449</b> (Rev. 2-32)	<b>U.S. Department of Commerce</b> <b>Patent and Trademark Office</b>	<b>Atty. Docket No.</b>	<b>Serial No.</b>
<b>FOURTH SUPPLEMENTAL INFORMATION DISCLOSURE</b> <b>STATEMENT BY APPLICANT</b>		99,818	09/538,342
(Use several sheets if necessary)		<b>Applicant:</b> Mark O. Vogel et al.	
		<b>Filing Date:</b> March 29, 2000	<b>Group:</b> 2711

**U.S. PATENT**

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
	1.	5,815,664	09-29-98	Asano	395	200.57	03-19-96
	2.	6,032,019	02-29-00	Chen et al.	455	5.1	01-20-99
	3.	6,442,158	08-27-02	Beser	370	352	05-27-98

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc).**

EXAMINER		DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

Hon. Commissioner of  
Patents and Trademarks

S/N: 09/538,342

Atty BJH:hm

Re: Applicant - Mark O. Vogel et al.

Case No. 99,818

"Method for Improved Cable Modem Ranging in a Data-Over-Cable System"

Sir:

Please place the Patent Office receipt stamp hereon and mail to acknowledge receipt of:

- (1) Transmittal Letter in duplicate;
- (2) Fourth Supplemental Information Disclosure Statement;
- (3) Fourth Supplemental Form PTO-1449; and
- (4) 3 Cited References.

**Fee Enclosed**

Respectfully,  
McDonnell Boehnen Hulbert & Berghoff  
Attorney for Applicant

\$ - 0 -

Date Mailed: November 12, 2002

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
(Case No. 99,818)

In re Application of:

Mark O. Vogel et al.

Serial No. 09/538,342

Filed: March 29, 2000

For: Method for Improved Cable Modem Ranging  
In A Data-Over-Cable System

Examiner: To Be Assigned

Art Unit: 2711

**TRANSMITTAL LETTER**

Commissioner for Patents  
Washington, DC 20231

1. We are transmitting herewith the attached papers for the above-identified patent application:
  - 1) Fifth Supplemental Information Disclosure Statement (IDS) Letter
  - 2) Fifth Supplemental Information Disclosure Statement (IDS) PTO-Form 1449
  - 3) Copies of IDS Citations for 09/538,342 (12 Documents)
  - 4) Return Postcard
2. A check in the amount of \$0.00 is enclosed for the Filing Fee.
3. **GENERAL AUTHORIZATION TO CHARGE OR CREDIT FEES:** Please charge any additional fees or credit overpayment to Deposit Account No. 13-2490. A duplicate copy of this sheet is enclosed.
4. **CERTIFICATE OF MAILING UNDER 37 CFR § 1.8:** The undersigned hereby certifies that this Transmittal Letter and the paper, as described in paragraph 1 hereinabove, are being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Washington, D.C. 20231 on this 5<sup>th</sup> day of March, 2003.

By:

  
Bradley J. Hulbert

Reg. No. 30,130

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
(Case No. 99,818)

In re Application of:

Mark O. Vogel et al.

Serial No. 09/538,342

Filed: March 29, 2000

For: Method for Improved Cable Modem Ranging  
In A Data-Over-Cable System

Examiner: To Be Assigned

Art Unit: 2711

**FIFTH SUPPLEMENTAL INFORMATION  
DISCLOSURE STATEMENT LETTER**

Commissioner for Patents  
Washington, DC 20231

Dear Sir:

Pursuant to the duty of disclosure provided by 35 C.F.R. § 1.56 and §§ 1.97-98, the applicants wish to make the following references of record in the above-identified application. Copies of the references are enclosed. Copies are also listed in the PTO-1449 form enclosed herewith. It is requested that the documents be given careful consideration and that they be cited of record in the prosecution history of the present application so that they will appear on the face of the patent issuing from the present application.

Portions of the references may be material to the examination of the pending claims, however no such admission is intended. 37 C.F.R. 1.97 (h). The references have not been reviewed in sufficient detail to make any other representation and, in particular, no representation is intended as to the relative importance of any portion of the references. This Statement is not a representation that the cited references have effective dates early enough to be "prior art" within the meaning of 35 U.S.C. sections 102 or 103.

## CITED REFERENCES

### U.S. Patent Documents

Document Number	Date	Name
6,510,162	01-21-03	Fijolek et al.
5,929,850	07-27-99	Broadwin et al.
5,528,595	06-18-96	Walsh et al.

### Other Documents

1. Droms, R., *Dynamic Host Configuration Protocol*, Request for Comments 1541, October 1993, Pages 1 to 31.
2. RFC 791, *Internet Protocol, DARPA Internet Program Protocol Specification*, September 1981, Pgs. 1-37.
3. Postel, J., *Internet Protocol, DARPA Internet Program Protocol Specification*, RFC 792, September 1981, Pgs. 1-14.
4. Postel, J., *User Datagram Protocol*, RFC 768, August 28, 1980, Pgs. 1-3.
5. RFC 793, *Transmission Control Protocol, DARPA Internet Program Protocol Specification*, September 1981, Pgs. 1-68.
6. Case, J. et al., *A Simple Network Management Protocol (SNMP)*, RFC 1157, May 1990, Pgs. 1-26.
7. Sollins, K., *The TFTP Protocol (Revision 2)*, RFC 1350, July 1992, Pgs. 1-9.
8. Alexander, S., *DHCP Options and BOOTP Vendor Extensions*, RFC 2132, March 1997, Pgs. 1-27.
9. "Radio Frequency Interface Specification (Interim Specification) SP-RFiv1.1-103-991105", MCNS Holdings, L.P., 1999, Pgs. ii to 366.

Respectfully submitted,

Date: March 5, 2003

By:

  
Bradley J. Hulbert

Registration No. 30,130



<b>FORM PTO-1449</b> (Rev. 2-32)	<b>U.S. Department of Commerce</b> <b>Patent and Trademark Office</b>	<b>Atty. Docket No.</b>  99,818	<b>Serial No.</b>  09/538,342
<b>FIFTH SUPPLEMENTAL INFORMATION DISCLOSURE</b> <b>STATEMENT BY APPLICANT</b>  (Use several sheets if necessary)		<b>Applicant:</b> Mark O. Vogel et al.	
		<b>Filing Date:</b> March 29, 2000	<b>Group:</b> 2711

### U.S. PATENT

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
-	1.	6,510,162	01-21-03	Fijolek et al.	370	432	05-27-98
	2.	5,929,850	07-27-99	Broadwin et al.	345	327	07-01-96
	3.	5,528,595	06-18-96	Walsh et al.	370	85.13	11-14-95

### OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc).

4.	Droms, R., <i>Dynamic Host Configuration Protocol</i> , Request for Comments 1541, October 1993, Pages 1 to 31.	
5.	RFC 791, <i>Internet Protocol</i> , <i>DARPA Internet Program Protocol Specification</i> , September 1981, Pgs. 1-37.	
6.	Postel, J., <i>Internet Protocol</i> , <i>DARPA Internet Program Protocol Specification</i> , RFC 792, September 1981, Pgs. 1-14.	
7.	Postel, J., <i>User Datagram Protocol</i> , RFC 768, August 28, 1980, Pgs. 1-3.	
8.	RFC 793, <i>Transmission Control Protocol</i> , <i>DARPA Internet Program Protocol Specification</i> , September 1981, Pgs. 1-68.	
9.	Case, J. et al., <i>A Simple Network Management Protocol (SNMP)</i> , RFC 1157, May 1990, Pgs. 1-26.	
10.	Sollins, K., <i>The TFTP Protocol (Revision 2)</i> , RFC 1350, July 1992, Pgs. 1-9.	
11.	Alexander, S., <i>DHCP Options and BOOTP Vendor Extensions</i> , RFC 2132, March 1997, Pgs. 1-27.	
12.	"Radio Frequency Interface Specification (Interim Specification) SP-RFIV1.1-103-991105", MCNS Holdings, L.P., 1999, Pgs. ii to 366.	
EXAMINER		DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

Hon. Commissioner of  
Patents and Trademarks

S/N: 09/538,342

Atty BJH:hm

Re: Applicant - Mark O. Vogel et al.

Case No. 99,818

"Method for Improved Cable Modem Ranging in a Data-Over-Cable System"

Sir:

Please place the Patent Office receipt stamp hereon and mail to acknowledge receipt of:

- (1) Transmittal Letter in duplicate;
- (2) Fifth Supplemental Information Disclosure Statement;
- (3) Fifth Supplemental Form PTO-1449; and
- (4) 12 Cited References.

**Fee Enclosed**

\$ - 0 -

Date Mailed: March 5, 2003

Respectfully,  
McDonnell Boehnen Hulbert & Berghoff  
Attorney for Applicant

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
(Case No. 99,818)

In re Application of:

Mark O. Vogel et al.

Serial No. 09/538,342

Filed: March 29, 2000

For: Method for Improved Cable Modem Ranging  
In A Data-Over-Cable System

Examiner: To Be Assigned

Art Unit: 2711

**TRANSMITTAL LETTER**

Commissioner for Patents  
Washington, DC 20231

1. We are transmitting herewith the attached papers for the above-identified patent application:
  - 1) Sixth Supplemental Information Disclosure Statement (IDS) Letter
  - 2) Sixth Supplemental Information Disclosure Statement (IDS) PTO-Form 1449
  - 3) Copies of IDS Citations for 09/538,342 (3 Documents)
  - 4) Return Postcard
2. A check in the amount of \$0.00 is enclosed for the Filing Fee.
3. **GENERAL AUTHORIZATION TO CHARGE OR CREDIT FEES:** Please charge any additional fees or credit overpayment to Deposit Account No. 13-2490. A duplicate copy of this sheet is enclosed.
4. **CERTIFICATE OF MAILING UNDER 37 CFR § 1.8:** The undersigned hereby certifies that this Transmittal Letter and the paper, as described in paragraph 1 hereinabove, are being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Washington, D.C. 20231 on this 19<sup>th</sup> day of March, 2003.

By: 

Bradley J. Hulbert  
Reg. No. 30,130

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
(Case No. 99,818)

In re Application of:	)	
	)	
Mark O. Vogel et al.	)	Examiner: To Be Assigned
	)	
Serial No. 09/538,342	)	Art Unit: 2711
	)	
Filed: March 29, 2000	)	
	)	
For: Method for Improved Cable Modem Ranging	)	
In A Data-Over-Cable System	)	

**SIXTH SUPPLEMENTAL INFORMATION  
DISCLOSURE STATEMENT LETTER**

Commissioner for Patents  
Washington, DC 20231

Dear Sir:

Pursuant to the duty of disclosure provided by 35 C.F.R. § 1.56 and §§ 1.97-98, the applicants wish to make the following references of record in the above-identified application. Copies of the references are enclosed. Copies are also listed in the PTO-1449 form enclosed herewith. It is requested that the documents be given careful consideration and that they be cited of record in the prosecution history of the present application so that they will appear on the face of the patent issuing from the present application.

Portions of the references may be material to the examination of the pending claims, however no such admission is intended. 37 C.F.R. 1.97 (h). The references have not been reviewed in sufficient detail to make any other representation and, in particular, no representation is intended as to the relative importance of any portion of the references. This Statement is not a representation that the cited references have effective dates early enough to be "prior art" within the meaning of 35 U.S.C. sections 102 or 103.

## CITED REFERENCES

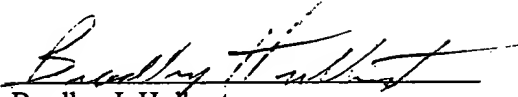
### U.S. Patent Documents

Document Number	Date	Name
5,960,177	09-28-99	Tanno
5,941,988	08-24-99	Bhagwat et al.
6,289,377	09-11-01	Lalwaney et al.

Respectfully submitted,

Date: March 19, 2003

By:



Bradley J. Hulbert

Registration No. 30,130

<b>FORM PTO-1449</b> <b>(Rev. 2-32)</b>	<b>U.S. Department of Commerce</b> <b>Patent and Trademark Office</b>	<b>Atty. Docket No.</b>	<b>Serial No.</b>
<b>SIXTH SUPPLEMENTAL INFORMATION DISCLOSURE</b> <b>STATEMENT BY APPLICANT</b> (Use several sheets if necessary)		99,818	09/538,342
		<b>Applicant:</b> Mark O. Vogel et al.	
		<b>Filing Date:</b> March 29, 2000	<b>Group:</b> 2711

## U.S. PATENT

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
	1.	5,960,177	09-28-99	Tanno	395	200.59	03-12-96
	2.	5,941,988	08-24-99	Bhagwat et al.	713	201	01-27-97
	3.	6,289,377	09-11-01	Lalwaney et al.	709	222	10-27-98

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc).

EXAMINER		DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

Hon. Commissioner of      S/N: 09/538,342  
Patents and Trademarks  
Re: Applicant – Mark O. Vogel et al.

Atty      BJH:hm

Case No. 99,818

“Method for Improved Cable Modem Ranging in a Data-Over-Cable System”

Sir:

Please place the Patent Office receipt stamp hereon and mail to acknowledge receipt of:

- (1) Transmittal Letter in duplicate;
- (2) Sixth Supplemental Information Disclosure Statement;
- (3) Sixth Supplemental Form PTO-1449; and
- (4) 3 Cited References.

**Fee Enclosed**

\$ - 0 -

Date Mailed: March 19, 2003

Respectfully,  
McDonnell Bochnen Hulbert & Berghoff  
Attorney for Applicant

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
(Case No. 99,818)

In re Application of:

Mark O. Vogel et al.

Serial No. 09/538,342

Filed: March 29, 2000

For: Method for Improved Cable Modem Ranging  
In A Data-Over-Cable System

Examiner: To Be Assigned

Art Unit: 2711

## TRANSMITTAL LETTER

Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

1. We are transmitting herewith the attached papers for the above-identified patent application:

- 1) Seventh Supplemental Information Disclosure Statement (IDS) Letter
- 2) Seventh Supplemental Information Disclosure Statement (IDS) PTO-Form 1449
- 3) Copies of IDS Citations for 09/538,342 (5 Documents)
- 4) Return Postcard

2. A check in the amount of \$180.00 is enclosed for the Filing Fee.

3. **GENERAL AUTHORIZATION TO CHARGE OR CREDIT FEES:** Please charge any additional fees or credit overpayment to Deposit Account No. 13-2490. A duplicate copy of this sheet is enclosed.4. **CERTIFICATE OF MAILING UNDER 37 CFR § 1.8:** The undersigned hereby certifies that this Transmittal Letter and the paper, as described in paragraph 1 hereinabove, are being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria Virginia 22313-1450 on this 9<sup>th</sup> day of April, 2003.By: Enrique Pérez  
Reg. No. 43,853



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
(Case No. 99,818)

In re Application of:

Mark O. Vogel et al.

Serial No. 09/538,342

Filed: March 29, 2000

For: Method for Improved Cable Modem Ranging  
In A Data-Over-Cable System

Examiner: To Be Assigned

Art Unit: 2711

**TRANSMITTAL LETTER**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

1. We are transmitting herewith the attached papers for the above-identified patent application:

- 1) Seventh Supplemental Information Disclosure Statement (IDS) Letter
- 2) Seventh Supplemental Information Disclosure Statement (IDS) PTO-Form 1449
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- 4) Return Postcard

2. A check in the amount of \$180.00 is enclosed for the Filing Fee.

3. **GENERAL AUTHORIZATION TO CHARGE OR CREDIT FEES:** Please charge any additional fees or credit overpayment to Deposit Account No. 13-2490. A duplicate copy of this sheet is enclosed.

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By: \_\_\_\_\_

Enrique Pérez  
Reg. No. 43,853

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
(Case No. 99,818)

In re Application of:

Mark O. Vogel et al.

Serial No. 09/538,342

Filed: March 29, 2000

For: Method for Improved Cable Modem Ranging  
In A Data-Over-Cable System

Examiner: To Be Assigned

Art Unit: 2711

**SEVENTH SUPPLEMENTAL INFORMATION  
DISCLOSURE STATEMENT LETTER**

Commissioner for Patents  
P.O. Box 1450  
Alexandria Virginia 22313-1450

Dear Sir:

Pursuant to the duty of disclosure provided by 35 C.F.R. § 1.56 and §§ 1.97-98, the applicants wish to make the following references of record in the above-identified application. Copies of the references are enclosed. Copies of the references are also listed in the PTO-1449 form enclosed herewith. It is requested that the documents be given careful consideration and that they be cited of record in the prosecution history of the present application so that they will appear on the face of the patent issuing from the present application. Also, enclosed is the requisite fee pursuant to 37 C.F.R. §§ 1.97(c) and 1.17 (p), \$180.00.

Portions of the references may be material to the examination of the pending claims, however no such admission is intended. 37 C.F.R. 1.97 (h). The references have not been reviewed in sufficient detail to make any other representation and, in particular, no representation is intended as to the relative importance of any portion of the references. This Statement is not a representation that the cited

references have effective dates early enough to be "prior art" within the meaning of 35 U.S.C. sections 102 or 103.

### CITED REFERENCES

#### U.S. Patent Documents

Document Number	Date	Name
6,393,478	05-21-02	Bahlmann
6,064,372	05-16-00	Kahkoska

#### U.S. Published Applications

Number	Date	Name
US 2003/0028891 A1	02-06-03	Hardt et al.
US 2002/0136165 A1	09-26-02	Ady et al.
US 2002/0122050 A1	09-05-02	Sandberg

Respectfully submitted,

Date: April 9, 2003

By: \_\_\_\_\_

Enrique Perez  
Registration No. 43,853

FORM PTO-1449  
(Rev. 2-32)

U.S. Department of Commerce  
Patent and Trademark Office

Atty. Docket No.

99,818

Serial No.

09/538,342

SEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(Use several sheets if necessary)

Applicant:

Mark O. Vogel et al.

Filing Date:

March 29, 2000

Group:

2711

U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
	1.	6,393,478	05-21-02	Bahlmann	709	224	02-22-99
	2.	6,064,372	05-16-00	Kahkoska	345	173	11-27-96

U.S. PUBLISHED PATENT APPLICATIONS

Examiner Initial		Publication Number	Pub. Date	Name	Class	Subclass	Filing Date if Appropriate
	3.	US 2003/0028891 A1	02-06-03	Hardt et al.	725	107	08-03-01
	4.	US 2002/0136165 A1	09-26-02	Ady et al.	370	241	03-23-01
	5.	US 2002/0122050 A1	09-05-02	Sandberg	345	705	12-30-00

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation
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S/N: 09/538,342

Atty EP:hm

Re: Applicant – Mark O. Vogel et al.

Case No. 99,818

“Method for Improved Cable Modem Ranging in a Data-Over-Cable System”

Sir:

Please place the Patent Office receipt stamp hereon and mail to acknowledge receipt of:

- (1) Transmittal Letter in duplicate;
- (2) Seventh Supplemental Information Disclosure Statement;
- (3) Seventh Supplemental Form PTO-1449; and
- (4) 5 Cited References.

**Fee Enclosed**

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Date Mailed: April 9<sup>th</sup>, 2003

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Attorney for Applicant

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S/N 09/538,342

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Case No. 99,818

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- ☒ Copies of Fifty-Eight (58) Cited References for 09/538,342
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S/N: 09/538,342  
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Case No. 99,818

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- (4) 6 Cited References.

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S/N: 09/538,342

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Case No. 99,818

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S/N: 09/538,342

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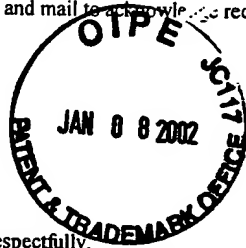
Case No. 99,818

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- (2) Supplemental Information Disclosure Statement;
- (3) Supplemental Form PTO-1449; and
- (4) 76 Cited References.



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Date Mailed: December 19, 2001

PTO-1449 (2-32)		U.S. Department of Commerce Patent and Trademark Office		Atty. Docket No. 99,818	Serial No. 09/538,342
THIRD SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)				Applicant: Mark O. Vogel et al.	
RECEIVED JUN 27 2002 Technology Center 2600				Filing Date: March 29, 2000	Group: 2711

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Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
SEB	1	6,308,328	10-23-01	Bowcutt et al.	725	111	04-10-97
SEB	2	6,301,618	10-09-01	Sitaraman et al.	709	227	09-11-00
SEB	3	6,301,223	10-09-01	Hrastar et al.	370	227	04-11-97
SEB	4	6,370,147	04-09-02	Beser	370	401	04-23-98
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SEB	6	"Radio Frequency Interface Specification (Interim Specification) SP-RFI-I05-991105", MCNS Holdings, L.P., 1999, Pgs. ii to 202.
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EXAMINER		DATE CONSIDERED
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Atty. Docket No.

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List of Patents and Publications for Applicant's

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U.S. Patent Documents

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Foreign Patent Documents

See Page 4

Other Art

See Page 4

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SEB	A1	4,644,533	02/17/1997	Braff et al.	370	94	05/06/1985
SEB	A2	4,881,263	11/14/1989	Herbison et al.	380	21	09/25/1987
SEB	A3	4,996,685	02/26/1991	Farese et al.	370	58.1	04/10/1989
SEB	A4	5,301,273	04/05/1994	Konishi	395	200	06/18/1991
SEB	A5	5,430,727	07/04/1995	Callon	370	85.13	05/19/1994
SEB	A6	5,598,410	01/28/1997	Stone	370	469	12/29/1994
SEB	A7	5,610,910	03/11/1997	Focsaneanu et al.	370	351	08/17/1995
SEB	A8	5,675,742	10/07/1997	Jain et al.	395	200	06/26/1995
SEB	A9	5,708,654	01/13/1998	Arndt et al.	370	242	11/27/1996
SEB	A10	5,724,510	03/03/1998	Arndt et al.	395	200.5	09/06/1996
SEB	A11	5,790,770	08/04/1998	McClure et al.	395	200.61	07/18/1996
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SEB	A13	5,793,747	08/11/1998	Kline	370	230	03/14/1996
SEB	A14	5,809,252	09/15/1998	Beighe et al.	395	200.57	12/13/1996
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SEB	A21	5,903,558	05/11/1999	Jones et al.	370	351	06/28/1996

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INFORMATION DISCLOSURE STATEMENT — PTO-1449 (MODIFIED)

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## U.S. Patent Documents

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## Foreign Patent Documents

**See Page 4**

## Other Art

**See Page 4**

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SEP	A22	5,909,549	06/01/1999	Compliment et al.	709	223	11/12/1996
SEP	A23	5,913,037	06/15/1999	Spofford et al.	395	200.56	07/03/1996
SEP	A24	5,915,119	06/22/1999	Cone	395	750.02	10/01/1996
SEP	A25	5,922,051	07/13/1999	Sidey	709	223	05/14/1997
SEP	A26	5,943,604	08/24/1999	Chen et al.	455	5.1	10/31/1997
SEP	A27	5,954,797	09/21/1999	Sidey	709	223	05/14/1997
SEP	A28	5,982,748	11/09/1999	Yin et al.	370	232	10/03/1996
SEP	A29	5,987,524	11/16/1999	Yoshida et al.	709	245	09/30/1997
SEP	A30	5,991,292	11/23/1999	Focsaneanu et al.	370	352	03/06/1997
SEP	A31	5,991,306	11/23/1999	Burns et al.	370	429	08/26/1996
SEP	A32	5,999,536	12/07/1999	Kawafuji et al.	370	401	11/24/1997
SEP	A33	6,003,077	12/14/1999	Bawden et al.	709	223	09/15/1997
SEP	A34	6,005,851	12/21/1999	Craddock et al.	370	329	10/10/1997
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SEP	A36	6,014,545	01/11/2000	Wu et al.	455	3.1	03/27/1997
SEP	A37	6,031,841	02/29/2000	Woundy	370	410	12/23/1997
SEP	A38	6,041,041	03/21/2000	Ramanathan et al.	370	241	04/15/1997
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SEP	A42	6,061,349	05/09/2000	Coile et al.	370	389	05/02/1997

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INFORMATION DISCLOSURE STATEMENT — PTO-1449 (MODIFIED)

Form PTO-1449 (modified)

Atty. Docket No.  
99,818Serial No.  
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List of Patents and Publications for Applicant's

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Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date of App.
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SEB	A44	6,070,187	05/30/00	Subramaniam et al.	709	220	03/26/1998
SEB	A45	6,070,242	05/30/2000	Wong et al.	713	201	12/09/1996
SEB	A46	6,073,178	06/06/2000	Wong et al.	709	229	12/09/1996
SEB	A47	6,075,787	06/13/2000	Bobeck et al.	370	395	05/08/1997
SEB	A48	6,091,709	07/18/2000	Harrison et al.	370	235	11/25/1997
SEB	A49	6,094,431	07/25/2000	Yamato et al.	370	395	11/29/1996
SEB	A50	6,104,700	08/15/2000	Haddock et al.	370	235	02/03/1998
SEB	A51	6,112,258	08/29/2000	Miller et al.	710	19	03/19/1998
SEB	A52	6,122,254	09/19/2000	Aydemir et al.	370	235	11/25/1997
SEB	A53	6,128,298	10/03/2000	Wootton et al.	370	392	10/03/2000
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SEB	A55	6,130,880	10/10/2000	Naudus et al.	370	235	03/20/1998
SEB	A56	6,137,792	10/24/2000	Jonas et al.	370	354	06/14/1996
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SEB	A58	6,148,410	11/14/2000	Baskey et al.	714	4	09/15/1997
SEB	A59	6,157,965	12/05/2000	Mohammed et al.	710	8	02/27/1998
SEB	A60	6,170,061	01/02/2001	Beser	713	201	02/04/1998
SEB	A61	6,178,455	01/23/2001	Schutte et al.	709	228	04/11/1997
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SEB	A63	6,189,102	02/13/2001	Beser	713	201	05/27/1998
SEB	A64	6,208,656	03/27/2001	Hrastar et al.	370	401	04/11/1997

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## U.S. Patent Documents

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SEB	A65	6,212,563	04/03/2001	Beser	709	227	10/01/1998
SEB	A66	6,216,171	04/10/2001	Isono et al.	709	250	02/11/1998
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SEB	A68	6,240,464	05/29/2001	Fijolek et al.	709	250	02/04/1998
SEB	A69	6,260,072	07/10/2001	Rodriguez-Moral	709	241	06/12/1997
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SEB	A71	6,272,150	08/07/2001	Hrastar	370	486	05/05/1997
SEB	A72	6,275,853	08/14/2001	Beser et al.	709	223	05/27/1998
SEB	A73	6,295,554	09/25/2001	Karadogan et al.	709	219	05/27/1998

## Foreign Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No
	B1						
	B2						
	B3						
	B4						
	B5						

## Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
SEB	C1	Kyees et al., "ADSL: A New Twisted-Pair Access To The Information Highway", IEEE Communication Magazine, Vol. 33, Issue 4, April 1995, pages 52-60.

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Other Art

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## Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
520	C2	Huang et al., "Design Of An MPEG-Based Set-Top Box For Video On Demand Services, Acoustics, Speech, And Signal Processing", 1995 International Conference, ICASSP-95, Vol. 4, ISBN:0-7803-2431-5, May 9-12, 1995, pages 2655-2658.
903	C3	"A Solution For The Priority Queue Problem Of Deadline-Ordered Service Disciplines", N.R. Figueira, IEEE International Conference On Computer Communications And Networks, September 22-25, 1997, pages 320-325.
	C4	
	C5	
	C6	
	C7	
	C8	
	C9	

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99,818

Serial No.

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Applicant:

Mark O. Vogel, et al.

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## U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
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SEB	2	5,138,712	08-11-92	Corbin	395	700	10-02-89
SEB	3	5,347,304	09-13-94	Moura et al.	348	12	07-28-93
SEB	4	5,442,749	08-15-95	Northcutt et al.	395	200.09	07-09-93
SEB	5	5,487,180	01-23-96	Ohtake	455	54.1	03-17-94
SEB	8	5,488,412	01-30-96	Majeti et al.	348	10	03-31-94
SEB	7	5,489,897	02-06-96	Inoue	340	870.39	04-13-93
SEB	8	5,583,931	12-10-96	Schneider et al.	379	399	07-14-95
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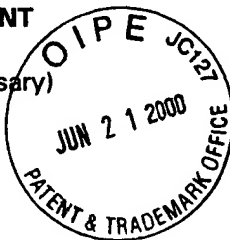
99,818

Serial No.

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Mark O. Vogel, et al.

Filing Date:

3/29/00

Group:

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Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
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SEB	27	5,819,042	10-06-98	Hansen	395	200.52	02-20-96
SEB	28	5,828,655	10-27-98	Moura, et al.	370	236	08-21-96
SEB	29	5,835,727	11-10-98	Wong et al.	395	200.68	12-09-96
SEB	30	5,854,901	12-29-98	Cole, et al.	709	245	07-23-96
SEB	31	5,859,852	01-12-99	Moura, et al.	370	449	08-27-96
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99,818

Serial No.

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	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No

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Hon. Commissioner of S/N: 09/538,342  
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Atty EP:hm

Re: Applicant – Mark O. Vogel et al.

Case No. 99,818

“Method for Improved Cable Modem Ranging in a Data-Over-Cable System”

Sir:

Please place the Patent Office receipt stamp hereon and mail to acknowledge receipt of:

- (1) Transmittal Letter in duplicate;
- (2) Seventh Supplemental Information Disclosure Statement;
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- (4) 5 Cited References.

Fee Enclosed

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Respectfully,  
McDonnell Boehnen Hulbert & Bergho  
Attorney for Applicant



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